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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/606,235	06/25/2003		Dean F. Jerding	A-8573	A-8573 8314	
5642	7590	07/20/2004		EXAMINER		
		NTA, INC. OPERTY DEPARTA	BATAILLE, PIERRE MICHE			
5030 SUGARLOAF PARKWAY				ART UNIT	PAPER NUMBER	
LAWRENC	LAWRENCEVILLE, GA 30044			2186		

DATE MAILED: 07/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			N L.
•	Application No.	Applicant(s)	
	10/606,235	JERDING ET AL.	2X
Office Action Summary	Examiner	Art Unit	
	Pierre-Michel Bataille	2186	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	n the correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a rep. n. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONTI statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this community NDONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on 2	25 June 2003.		
• • • • • • • • • • • • • • • • • • • •	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice und			rits is
Disposition of Claims			
4) ☐ Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 1-10 is/are allowed. 6) ☐ Claim(s) 11-15,17 and 19-38 is/are rejected to. 7) ☐ Claim(s) 16 and 18 is/are objected to. 8) ☐ Claim(s) are subject to restriction and 18 is/are pending in the application and 19 is/are with 18 is/are with 19 is/ar	ndrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exam	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the constant of the con	•		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in Ap priority documents have been r ureau (PCT Rule 17.2(a)).	plication No eceived in this National Stag	ge
Attachment(s)		(070.445)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9483) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 6/22/03. 	Paper No(s)	mmary (PTO-413) /Mail Date ormal Patent Application (PTO-152 _·	?)

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DETAILED ACTION

Response to Amendment

- This Office Action is taken in response to application for patent dated June 25,
 Applicant's amendments and/or argument have been considered with the results that follow.
- 2. Claims 1-38 are pending in the application under prosecution. Acknowledgement is noted of the filing for priority application based on application 09/564,974, filed on May 4, 2000.
- 3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors.

Claim 1: it appears that "requiring" should be changed to – occupying – for consistency with the rest of the claim.

Claim 20 is a redundant copy of claim 17.

Please note that these are merely exemplary, Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 11-15, 17, and 19-38 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,563,648 (Menand et al).

With respect to claims 11-12, 26 and 38, Menand teaches communication system and method (Fig. 1) comprising: a client (audio video interactive (AVI) television receiver) and a server (outside computer system 55) establishing a bidirectional communication pathway inbetween, the client having a tuner (10), the client being capable of receiving broadcast information (processor in the television receiver receives the interactive application program information from the broadcaster) and the server having an executable application (the broadcast location including the computer system for generating interactive application program information. including executable code and data) [Col. 1, Lines 15-20], the executable application requiring an amount of memory for proper execution (flow operating system requesting a memory allocation from a memory manager of sufficient size) [Col. 7, Lines 20-28], a memory manager in the client, the memory manager being configured to determine whether the client has sufficient available memory for proper execution of the executable application, the server being configured to transmit the executable application in response to the memory manager determining that the client has sufficient memory for proper execution of the executable application (flow operating system determining sufficient memory to load the application program) [Col. 7, Lines 40-42; Col. 10, Lines 35-42; Col. 14, Lines 45-67].

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With respect to claim 13, Menand teaches the memory is a volatile memory [Col. 3, Lines 53-58; Col. 7, Lines 5-7].

With respect to claims 14, 27, Menand teaches allocating the required amount of memory from the available memory in response to determining that the client has sufficient available memory for proper execution of the executable application; and requesting the executable application from the server upon allocating the required amount of memory (flow operating system requesting a memory allocation from a memory manager of sufficient size, determining sufficient memory available and request allocation of the module upon the determining factor) [Col. 7, Lines 19-59; Col. 10, Lines 20-46].

With respect to claim 28, Menand teaches determining, in response to determining that the client has insufficient available memory for execution of the executable application using the normal amount of memory, whether the client has sufficient available memory for execution of the executable application using the reduced amount of memory [Col. 7, Lines 19-59; Col. 10, Lines 20-46].

With respect to claims 15, 17,19-23, 29-32, 34-36, Menand teaches purging data contained in the memory in response to determining that the client has insufficient available memory for proper execution of the executable application, and determining, in response to purging the data, whether the client has sufficient available memory for

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proper execution of the executable application (deallocating the oldest memory block first or first deallocating memory blocks marked as expendable by the originating application in an attempt to derive sufficient memory space) [Col. 14, Lines 57-67; Col. 6., Lines 10-18].

With respect to claims 24-25, 33, and 37, Menad teaches compacting a private or system heap in response to determining that the client has insufficient available memory for proper execution of the executable application; and determining, in response to compacting the system heap, whether the client has sufficient available memory for proper execution of the executable application (minimization of the application program with the application program deallocating its resources and maintaining only a minimal presence in the processing element) [Col. 6., Lines 10-18; Col. 14, Lines 25-57].

Allowable Subject Matter

- 6. Claims 16, 18, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 1-10 are allowable.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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US 5,517,643 (Davy) teaching method of allocating memory among a plurality of processes of a computer system.

US 5,768,539 teaching downloading applications software through a broadcast channel.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Michel Bataille whose telephone number is (703) 305-0134. The examiner can normally be reached on Tue-Fri (7:30A to 6:00P).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew M. Kim can be reached on (703) 305-3821. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pierre-Michel Bataille Primary Examiner Art Unit 2186